## IN THE CLAIMS

Please amend the claims as follows:

## 1.-46. (Previously Canceled)

- 47. (Currently Amended) A corrosion-resistant chemically continuous composite conduit having an inside and an outside, said conduit comprising from the outside to the inside:
  - a) a first layer comprising a porous, mineralcontaining substrate;
  - b) a second layer comprising a thermosetting material, said thermosetting material containing a silane and an excess of curing agent comprising isocyanate groups;
  - c) a third layer comprising a thermoplastic material, said thermoplastic material impregnated with a reactive resin;

wherein an interface between said first and second layers comprises covalent bonds between said silane in said second layer and minerals in said first layer; wherein an interface between said second and third layers

comprises covalent bonds between said isocyanate groups of said second layer and said reactive resin of said third layer;

wherein said second layer is sufficiently rigid to transmit stresses between said first and third layers;

wherein said third layer has a tensile strength sufficient to support a portion of said stresses; and wherein said first, second and third layers are bonded together with sufficient shear strength to transmit and distribute said stresses between said layers.

- 48. (Previously Added) The conduit of claim 47, wherein said first layer comprises a cementitious, ceramic, clay, brick, or metallic substrate.
- 49. (Previously Added) The conduit of claim 47, wherein said thermosetting material is polyurethane resin.
- 50. (Previously Added) The conduit of claim 47, wherein said thermosetting material contains a surfactant.
- 51. (Previously Amended) The conduit of claim 47, wherein said reactive resin is a polymer, said polymer being a copolymer of 2-propenoic acid, 2-hydroxypropyl ester, chloroethene and ethenyl acetate.
- 52. (Previously Added) The conduit of claim 47, wherein said thermoplastic material is PVC.
- 53. (Previously Amended) The conduit of claim 47, wherein said PVC has a tensile strength of 5,000 to 10,000 psi.
- 54. (Previously Added) A method for lining a porous, mineral-containing conduit, said method comprising the steps of:
  - a) impregnating a sheet of thermoplastic material with a reactive resin;
  - b) positioning said sheet of thermoplastic material within the interior of said conduit spaced apart from an inner surface of said conduit;
  - c) inserting a thermosetting material between said sheet of thermoplastic material and said inner surface, said thermosetting material containing a

silane and a curing agent comprising isocyanate groups;

wherein said silane forms covalent bonds with said minerals in said conduit; wherein said isocyanate groups form covalent bonds with said reactive resin of said thermoplastic sheet; wherein said thermoplastic sheet, said thermosetting material, and said conduit are bonded together with sufficient shear strength to transmit and distribute loads between them.

- 55. (Previously Amended) The method of claim 54, wherein said conduit comprises a cementitious, ceramic, clay, brick, or metallic substrate.
- 56. (Previously Amended) The method of claim 54, wherein said thermosetting material is polyurethane resin.
- 57. (Previously Amended) The method of claim 54, wherein said thermosetting material contains a surfactant.
- 58. (Previously Amended) The method of claim 54, wherein said reactive resin is 2-propenoic acid, 2-hydroxypropyl ester, polymer with chloroethene and ethenyl acetate.
- 59. (Previously Amended) The method of claim 54, wherein said thermoplastic material is PVC.
- 60. (Previously Amended) The method of claim 54, wherein said PVC has a tensile strength of 5,000 to 10,000 psi.
- 61. (Previously Added) The conduit of claim 47, wherein said stresses include compressive, tensile and shear

stresses due to one or more of earth loads, live loads and hydrostatic loads.